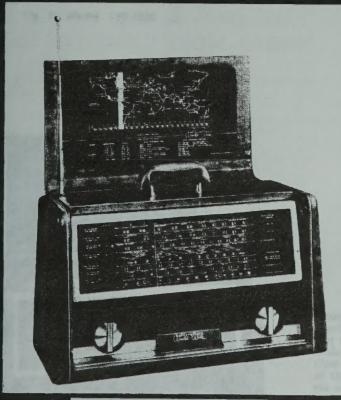


hallicrafters

World-Wide 8-BAND PORTABLE

SERVICE INSTRUCTIONS



Hallicrafters World-Wide Portable Model TW-2000



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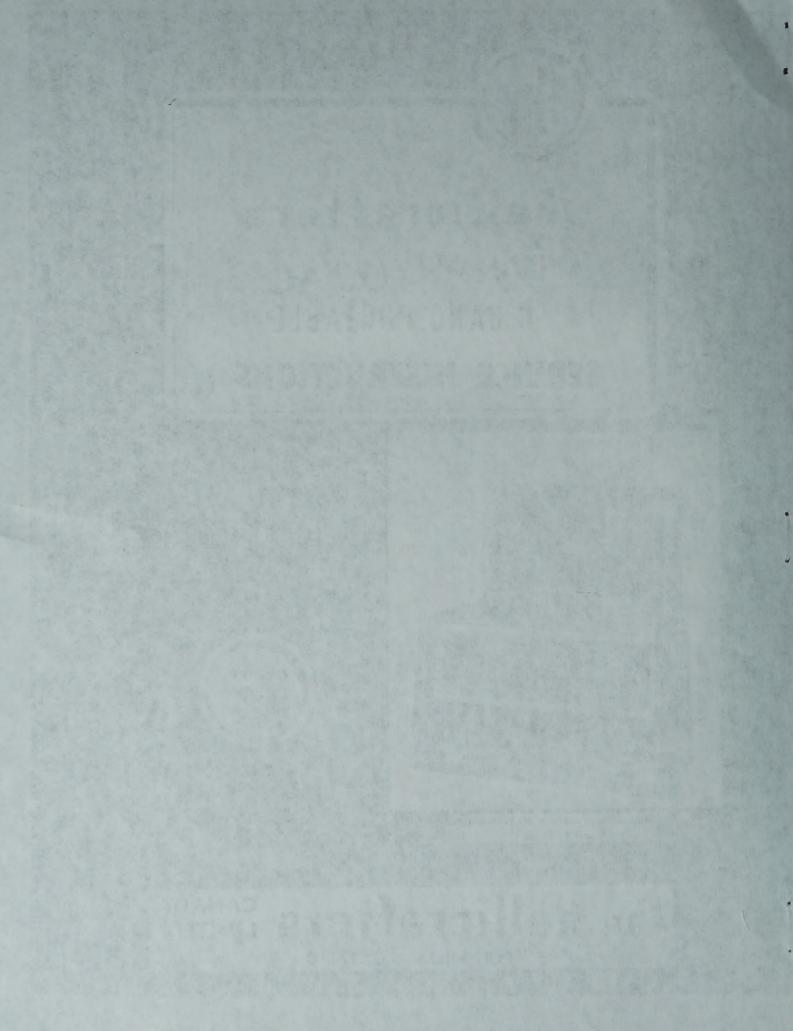




Fig. 1. Model TW-1000

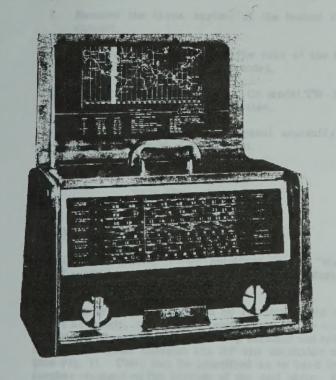


Fig. 2 Models TW2000 & TW2000 (Run 2)

TECHNICAL SPECIFICATIONS

TUBES AND RECTIFIERS 5 tubes plus 1 selenium rectifier

POWER SUPPLY.. 105-120 volt DC or 25/60 cycle AC; 90V "B" / 9V "A" battery pack; 220 volt AC/DC with Ballast Adapter 1X1438.

and LW bands, whip for SW bands, and terminals for long wire for use on all bands. Note: Front cover loop antenna is used on TW-1000 in place of stick-loop.

* The removable Skyrider antenna provides reception in automobiles, trains, steel constructed buildings, etc. where satisfactory reception is normally impossible. The Skyrider is located on the back cover and has an extension cable and suction cups for window mounting.

FREQUENCY COVERAGE

Band	Frequency Range
1	1.8 - 3.9 MC
2	14.62 - 15.7 MC
3	17.32 - 18.2 MC
4	9.22 - 10.3 MC
5	3.9 - 8.0 MC
6	11.42 - 12.3 MC
7	540 - 1600 KC
LW	180 - 400 KC

MODEL COMPARISON

Models TW-1000, TW2000 and TW2000 (Run 2) are electrically identical except for the built-in broadcast/longwave antenna and tuner. The TW-1000 uses a conventional loop antenna concealed in the front cover while the TW2000 and TW2000 (Run 2) employ a stick-loop antenna which mounts on the top of the chassis. (See Fig. 8.) Physical differences between models are readily apparent by reference to Figs. 1 and 2.

TUNING DIAL

To tune bands 1 thru 7, set the Band Selector knob so that the red band indicator at the left side of the dial is opposite the desired band. To tune the longwave band, rotate the Band Selector knob fully clockwise so that the yellow band indicators become visible at the left side of the dial.

SHORT OFFICE PARKETINGS

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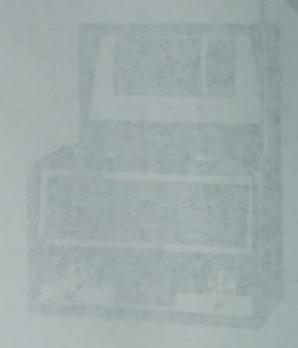
REGUENCY COVERAGE

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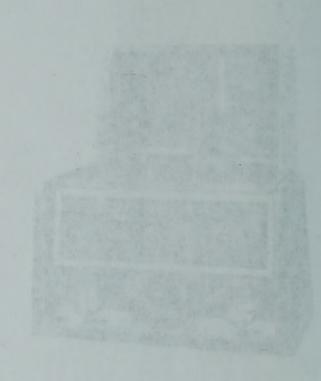
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NOTE: BAND SELECTOR CONTROL SET FULLY CLOCKWISE.

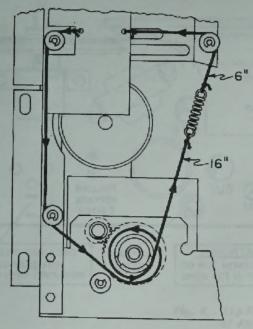


Fig. 3. Band Indicator Plate Stringing Diagram

REMOVING CHASSIS AND FRONT PANEL ASSEMBLY FROM CABINET

The chassis and front panel assembly are removable from the cabinet as a unit:

- Remove the three screws at the bottom of the cabinet.
- Remove the two hex nuts at the rear of the front panel assembly (one on each side).
- Unplug the whip antenna lead. On model TW-1000, also unplug the loop antenna cable.
- Slide the chassis and front panel assembly out through the front of the cabinet.

TUNER SERVICE

GENERAL

The Dynamic Turret Tuner employed in the "World-Wide" portable consists of a 1U4 RF amplifier stage and a 1L6 mixer-oscillator stage.

Band selection is accomplished by rotation of the tuner turret assembly, which has a separate set of two snap-in coil strips for each band. One strip contains the antenna coil and the other contains the RF and oscillator coils. (See Fig. 7). Coils can be identified as to band by the number stamped on the outside of the coil strip. Refer to the chart at the top of the schematic diagram for cross reference of coil marking, band, and frequency range.

Extreme care must be exercised in handling or servicing the tuner. Location and lead dress of components and wiring are usually very critical. Parts location and ground connections should be as originally made. The tuner was carefully aligned at the factory and should normally not require complete realignment under normal operating conditions.

Replacement of tubes (especially 1L6 mixer-oscillator) may cause some slight detuning of the tuner circuits. When replacing the 1L6, it may be necessary to touch up the oscillator slug adjustments. Replacement of the tuning gang may require complete realignment of the receiver.

NOTE: Models TW-2000 (Run 2) have a removable button plug to the right of the Band Selector knob which provides access to the oscillator slugs without removing the baffle board and dial assemblies.

Be sure that the coils are properly paired for the indicated band and that the coils follow proper sequence. Refer to chart at top of schematic diagram.

REMOVING TUNER FROM CHASSIS

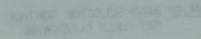
- Remove front control knobs by pulling in a forward direction.
- Remove dial escutcheon by removing the screws at sides and bottom.
- c. Remove dial scale by removing (4) screws at front of dial and (1) screw at rear.
- d. Disconnect the speaker leads.
- e. Remove baffle board assembly by removing the (2) long and (2) short machine screws.
- f. Remove large gear and pulley assembly by removing (2) Allen Head set screws, in models TW-1000 and TW-2000. In (the) TW-2000 (Run 2) remove the roll pin in the shaft and one Allen Head set screw.)
- g. Disconnect the tuner leads.
- Remove (2) screws at front of chassis and (2) stude at rear of chassis holding tuner in place.
- i. Lift out tuner at rear and remove.

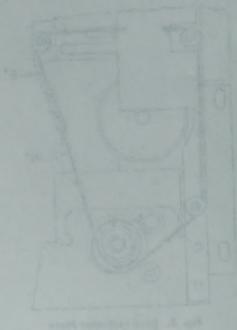
REMOVING TUNER TURRET ASSEMBLY

- a. Remove tuner from chassis as outlined above.
- Remove the front and rear turret retainer springs by depressing straight end of spring from tab on tuner chassis end plate.
- Grasp turret shaft at front and rear and remove turret from tuner assembly.
- d. For reassembly, position turret so that the stop at the rear end of turret is facing outward from the tuner assembly. Then press turret into position and replace front and rear turret retaining springs.

REMOVING SNAP-IN COIL STRIPS

Insert a screwdriver blade between the coil retainer spring and the turret end plate. Twist the blade away from the turret and lift the end of the coil upward and remove.





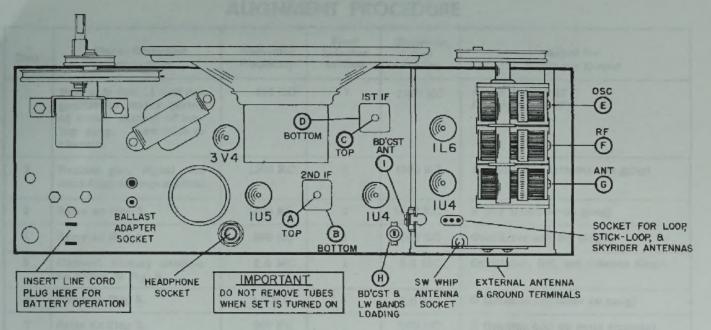


Fig. 4. Top View of Chassis Showing Location of Alignment Adjustments and Tubes

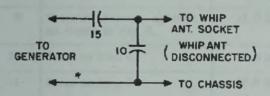


Fig. 5. Dummy Antenna for Bands 1 and 5

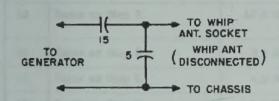


Fig. 6. Dummy Antenna for Bands 2, 3, 4 and 6

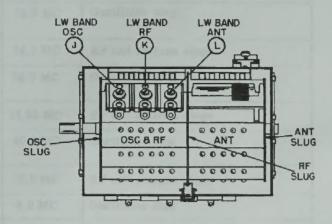


Fig. 7. Bottom View of Tuner Showing Location of Alignment Adjustments

ALIGNMENT INSTRUCTIONS

- Be sure both the set and the signal generator are thoroughly warmed up before starting alignment.
- Use an accurate signal generator which has a modulated output and covers 455 KC to 17.55 MC.
- Set the volume control at maximum and disconnect the SW whip antenna. On model TW-1000, raise the front cover to place the loop antenna in its operating position.
- Connect the output meter across the speaker voice coil.
- To avoid AVC action, use lowest output setting of signal generator which gives satisfactory reading on meter (approx. 50 milliwatts).
- The local oscillator frequency is higher than the signal frequency on bands 1, 7, & LW (8). The local oscillator is lower than the signal frequency on all other bands.

To adjust the oscillator slugs on the TW-1000 and TW-2000, it will be necessary to first remove the baffle board and dial assemblies by following Steps (a) thru (e) under "Removing Tuner from Chassis" on page 3. The oscillator slugs are accessible thru the opening at the front of the tuner (see Fig. 11).

Note: Models TW-2000 (Run 2) have a removable button plug to the right of the Band Selector knob which provides access to the oscillator slugs without removing the baffle board and dial assemblies.

- The RF and antenna slugs are accessible thru the opening at the rear of the tuner. (See Figs. 7 and 8.)
 Note that it is necessary to unclip and remove the antenna coil strip of the band being aligned to gain access to the RF slug.
- Refer to Figs. 4 and 7 for location of alignment adjustments. The alignment adjustments are also shown on the schematic diagram.

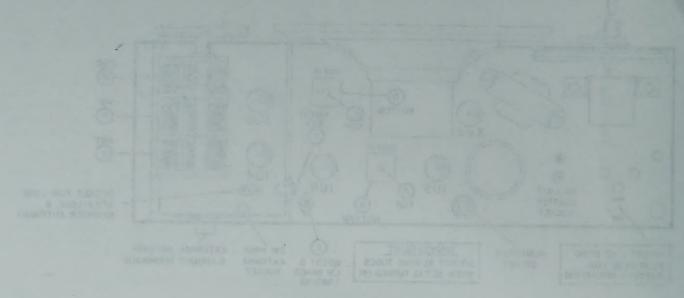
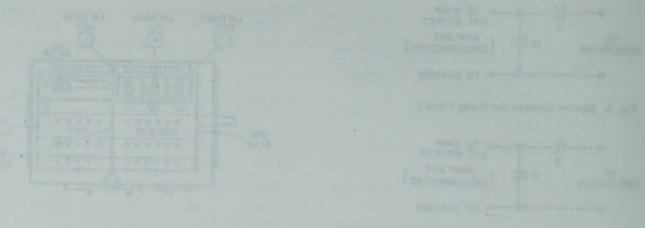


Fig. 4. Top blow of Chards Blooder Laurentee



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Fig. 7. Buttom From at Years Shawing Lauri's of

ALIGNMENT INSTRUCTIONS

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ALIGNMENT PROCEDURE

Step	Signal Generator Connections	Generator Frequency	Band Selector Setting	Receiver Dial Setting	Adjust for Maximum Output
1	High side thru .1 mfd ca- pacitor to stator plates of center section of tun- ing gang. Low side to chassis.	455 KC	7	1000 KC	A and B (2nd IF) C and D (1st IF)
2	Radiate gen, signal into stick-loop or loop antenna.	1500 KC	7	1500 KC	E (oscillator trimmer on gang)
3	Same as Step 2.	1400 KC	7	1400 KC	F (RF trimmer on gang)
4	Same as Step 2.	600 KC	7	600 KC	Oscillator and RF slugs.
5	Connect dummy antenna as shown in Fig. 5.	2.0 MC	1	2.0 MC	Oscillator, RF, and antenna slugs.
6	Same as Step 5.	3.5 MC	1	3.5 MC	G (antenna trimmer on gang)
7	Same as Step 2.	600 KC	7	600 KC	H (loading coil on main chassis)
8	Same as Step 2.	1400 KC	7	1400 KC	I (antenna trimmer on side of tuner
9	Connect dummy antenna as shown in Fig. 6.	15.0 MC	2	15.0 MC	Oscillator slug
10	Same as Step 9.	14.8 MC	2	14.8 MC	RF and antenna slugs
11	Same as Step 9.	18.0 MC	3	18.0 MC	Oscillator slug
12	Same as Step 9.	17.55 MC	3	17.55 MC	RF and antenna slugs
13	Same as Step 9.	10.0 MC	4	10.0 MC	Oscillator slug
14	Same as Step 9.	9.5 MC	4	9,5 MC	RF and antenna slugs
15	Same as Step 5.	4.0 MC	5	4.0 MC	Oscillator slug
16	Same as Step 5.	5.2 MC	5	5.2 MC	RF and antenna slugs
17	Same as Step 9.	12.0 MC	6	12.0 MC	Oscillator slug
18	Same as Step 9.	11.6 MC	6	11.6 MC	RF and antenna slugs
19	Same as Step 2.	400 KC	Long Wave	400 KC	J (oscillator trimmer)
20	Same as Step 2.	360 KC	Long Wave	360 KC	K (RF trimmer) and L (antenna trimmer)
21	Same as Step 2.	200 KC	Long Wave	200 KC	Oscillator, RF, and antenna slugs
22	Unplug stick-loop or loop antenna and plug "Sky- rider" antenna in its place, Radiate gen, signal into "Skyrider",	1400 KC	7	1400 KC	Trimmer screw on end of "Skyrider" antenna.

REPLACEMENT BATTERY PACKS

Eveready	Ray-O-Vac	General	Burgess
752	AB995	343	G6B60

AUGMENT PROCESSURE

and troubs A touring a provinced			
		20.0 MC	
		3.0 MC	
news remeates trea tip	DMILE	5440	
		. 2M 0'81	
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Oscillator, RV, soil referencial plays			

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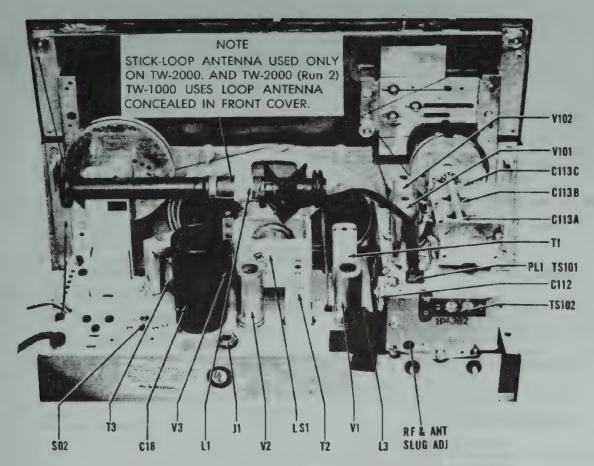


Fig. 8. Top View of Chassis Showing Component Location

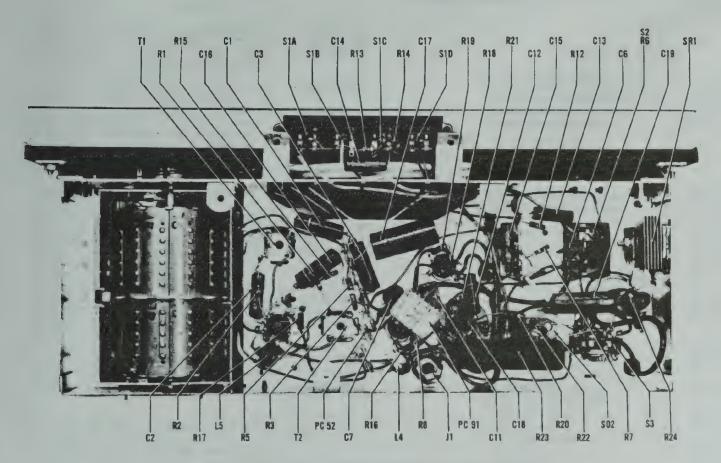
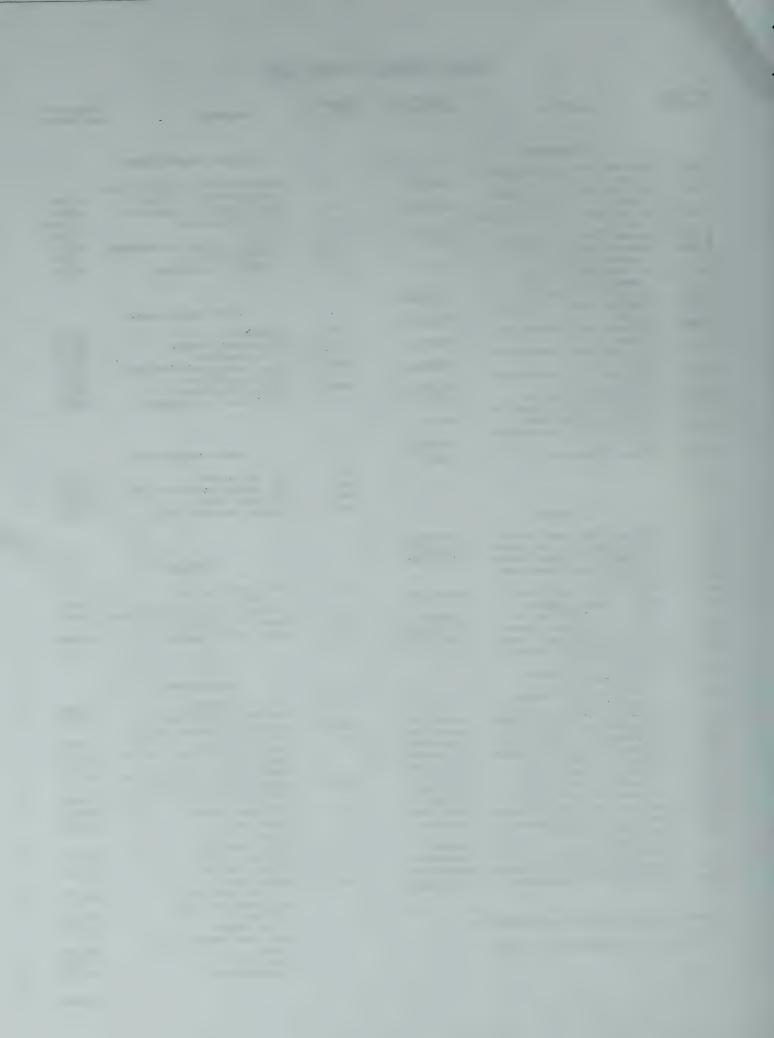


Fig. 9. Bottom View of Chassis Showing Component Location



MAIN CHASSIS PARTS LIST

Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number
	CAPACITORS				
C-13 0.04				COILS AND TRANSFORM	AERS
pag	7 mfd. 200V., molded tubular	46BS473L2	L-1	. Antenna, stick-loop (include	les cable.
C-2 0.01	mfd. 400V., molded tubular			plug, grommets, and cap	acitor) 57D197
C-4,550 m	nmf. (part of diode filter plate	46BS103L4	L-3	. Antenna, "Skyrider"; comp. Coil, antenna loading	olete 57C170 51B1586
PĊ	(-52)	*****	L-4,5	. Choke, RF	53A265
C-8,10 0.009	mfd. 450V., ceramic disc 5 mfd. (part of pentode	47A224	T-1.2	. Antenna, loop (less cable a . Transformer, IF	ind plug) . 57C169 50C242
cou	aplate PC-91)	Of the disk disk was the east gap and any	Т-3	. Transformer, audio output	55C198
COU	mmf. (part of pentode uplate PC-91)				
C-11 270 :	mmf. 500 V., mica	47X20B271K			
par	47 mfd. 600V., molded tubular	46BS472L6		PLUGS AND SOCI	
C-13,14 0.022	2 mfd. 200V., molded tubular		J-1	Jack, phone	36A002
C-15 0.001	per	46BS223L2	PL-3	Plug, antenna; 3-prong Line cord and plug	10A659
pap	er	46BS102L6	SO-1	Socket, battery cable (less	shell) 10A296
	7 mid. 600V., molded tubular	46BR473L6	SO-2	Shell for socket SO-1 Socket, ballast adapter	10A294 10A507
C-17 100 1	mfd. 25V., electrolytic	45B214		Socket, tube; 7-pin miniatu	re 6B297
C-18 Dual	40 mfd. 150V., 80 mfd. 150V., mfd. 25V.; electrolytic	45B215			
C-19 0.047	7 mfd. 600V., molded tubular				
	mmf 500 volt disc	46BS473L6		TUBES AND RECTIF	IERS
V-4V 1.1.1.1000	mini 500 voic disc	47B230	V-1	. 1U4: IF amplifier	0034114
			V-2	. 1U5: detector and audio an	nplifier 90XIU5
			V-3	. 3V4: 2udio output	90X3V4
	RESISTORS		Dat 8	meetitier, setenium; 100 m	a 27A151
R-1, 1000	ohms 10%, ½ watt, carbon	23X20X102K			
R-2 2.7 n	negohms 10%, ½ watt, carbon negohms 10% ½ watt, carbon	23X20X275K			
R-4 47,00	00 ohms (part of diode filter			SWITCHES	
pla	te PC-52	04740111011	S-1	. Switch assembly, tone	
R-6 Volu	me control, 1 megohm			for TW-1000 for TW-2000 and TW-20	00 (Run 2) 60A503
(inc	cludes on-off switch S-2) ohms 10% , $\frac{1}{2}$ watt, carbon	25B1009	S-2	. Switch, on-off (part of R-6	} , , , , , ,
R-8 10 m	egohms 10%, 4 watt, carbon	23X20X152K 23X20X106K	S-3	. Switch, power changeover	60B504
R-9 4.7 m	negohms (part of pentode				
R-10 1 me	plate PC-91)gohm (part of pentode				
con	plate PC-91)			MISCELLANEOU	
cou	negohms (part of pentode plate PC-91)			Clip, IF transformer mtg.	76A385
R-12 100,0	00 ohms 10%, ½ watt, carbon	23X20X104K	PC-52	Cord, dial (specify length). Diode filter plate (includes	s R-4,
R-14 27,00	00 ohms 10%, $\frac{1}{2}$ watt, carbon 00 ohms 10%, $\frac{1}{2}$ watt, carbon	23X20X183K 23X20X273K		C-4, and C-5)	49A023
R-15 330,0	00 ohms 10%, † watt, carbon	23X20X334K		Grommet, rubber; tuner r Lock, line cord	76A974
R-17 100 o	lms 5%, ½ watt, carbon	23X20X680J 23X20X101J	DC -01	Mounting plate, bakelite (f	or C-18) . 8A749
R-18 220 o	hms 5%, ½ watt, carbon	23X20X221J	PC-81	. Pentode couplate (includes R-10, R-11, C-8, C-9, ar	nd C-10} . 49A024
φR-20, 21 .1000	ohms 5% , $\frac{1}{2}$ watt, carbon ohms 10% $\frac{1}{2}$ watt, carbon	23X20X152J 23X20X102K		Plate band indicator	
R-22 3300	ohms 5%, 4 watt, carbon	23X20X332J		Pointer, dial	82B223
K-23 2000	ohms 5%, 10 watts,	24A959		Pulley 1-1/4" string dia	28A067
R-24 82 oh:	ms 5%, 2 watts, carbon	23X40X820J		3/4" string dia	28A137
*R-2510 me	egohms 10%; ½ watt, carbon	23X20X106K	LS-1	3-1/2" string dia Speaker, PM; 5" x 7" oval	28A128
10202200	ohms 10% 1 watt carbon	23X30X222K		(3.2 ohm voice coil)	
				Spring, dial cord tension. 7/8" overall	
φ Used on Mo	dels TW1000 and TW2000 on	dy.		11/16" overall	75A163
* Used on Moo	dels TW2000 (Run 2) only.			Spring, band indicator plat overall	
				Tube shield	69A306
				Tube shield base	69A308



CABINET & FRONT PANEL ASSEMBLY PARTS LIST

Description

Hallicrafters Part Number for Model

	TW-1000	TW-2000 and TW-2000 Run 2
Antenna, whip	57B173	57B196
Button plug, front panel		17B149 (Used on Run 2 only)
Cabinet	78F1031	78F1053
1" long	16A300	16A300
5" long	16A301	16A301
Dial Scale	MI 40 MIN A 40 MIN	83D449
Dial glass	22B369	22B369
Escutcheon, dial	7D386	7D488
Escutcheon, tone control	7C389	7C497
Evelet, whip antenna; fibre		5A449
Grille and baffle board assembly	7D393	7E489
Grommet, rubber; whip antenna shock mount	16A299	16A299
Knob, volume (includes spring)	15C598	15C661
Knob, band selector (includes spring)	15C599	15C659
Knob, tuning (includes spring)		15C660
Trim strip, control marking	8C1888	8C2219

PARTS LIST for DYNAMIC TURRET TUNERS 1D1382 & 1-2175

Schematic Symbol	Ref. No. on Fig. 10	Description	Cross Reference	Hallicrafters Part Number
		Assembly complete with tubes Models TW1000. TW20000	31L-301	1D1382
Dynami	c turret Turner	Assembly complete with tubes Model TW2000 (Run 2)		1-2175
		CAPACITORS		
	For	part numbers of capacitors C-101 thru C-107 and C-111, see "Coil Si	rips".	
C-108	1	Trimmer, 4-80 mmfd	13F-216	121-431
		. Trimmer, 2.2-40 mmfd	13F-232	121-432
		Trimmer, 9-180 mmfd	13F-234	121-430
		Trimmer, 2-20 mmfd	13F-225	121-397
		Tuning gang, 3 section	13G-009	48C297
		22 mmfd. GP, ceramic	CD8GP220J	121-405
C-115	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6.8 mmfd. 10% , $\frac{1}{4}$ " ceramic disc	CD8C6R8K	121-401
C-116,119,12	0,121	270 mmfd. 10%, 3/8" ceramic disc	CD12D271K	121-404
C-117		0.005 mfd. GMV, 9/16" ceramic disc	CD17X502Z	121-402
C-118,122,12	5,127	0.047 mfd. 20%, 200V.; molded tubular paper	13A -029	121-398
C-123		0.02 mfd. GMV, 5/8" ceramic disc	CD20X203Z	121-403
C-124		0.1 mfd. 20%, 200V.; molded tubular paper	13A-030	121-399
C-126		0.001 mfd. GMV, $\frac{1}{4}$ " ceramic disc	CD8X102Z	121-400

GMV - Guaranteed Minimum Value

GP - General Purpose

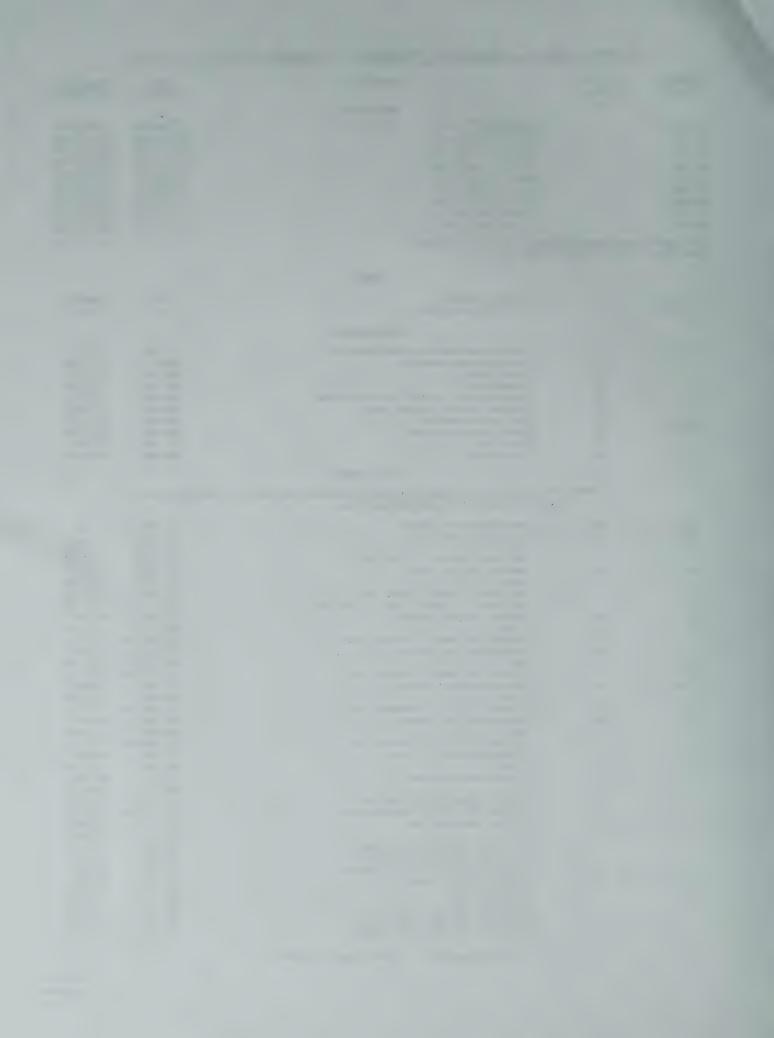


PARTS LIST for DYNAMIC TURRET TURNERS 1D1382 & 1-2175

Schematic	Ref. No.	Description	Cross	Hallicrafters
Symbol	on Fig. 10		Reference	Part Number
		RESISTORS		
R-101,104		. 1 megohm 10%, ½ W	12TAE105K	23X20X105K
R-102		. 15,000 ohm 10%, ½ W	12TAE153K	23X20X153K
φR-103		. 15,000 ohm 10%, ½ W	12TAE395K	23X20X395K
R-105		. 180,000 ohm 10%, ½ W	12TAE184K	23X20X184K
R-106		. 18,000 ohm 10%, ½ W	12TAE183K	23X20X183K
R-107		. 68,000 ohm 10%, ½ W	12TAE683K	23X20X683K
		. 1000 ohm 10%, ½ W	12TAE102K	23X20X102K
R-109		. 10,000 ohm 10%, ½W	12TAE103K	23X20X103K
R-110		. 82 ohm 10%, ½ W	12TAE820K	23X20X820K
R-111		. 120 ohm 10%, ½ W	12TAE121K	23X20X121K
		000 and TW2000), deleted		
	2175 (Model TW)			
MOIN LUNCE 14	ario (model 144)	2000, Itali 2./.		
		THEFT		
		TURES		
V-101		1U4: RF amplifier	1U4	90X1U4
V-102		. 1L6: mixer/oscillator	1L6	90X1L6
		po + wor manca / Ordinator () () () () () () () () () (TEO	SUNTE
		MISCELLANEOUS		
TS-101	6	Antenna input terminal board assembly	27C-006	121-394
	7	Contact bracket assembly	31B-278	121-386
	8	. Detent roller	31B-016	121-388
* * * * * * * * *	9	Detent spring	31B-005	121-389
	10	. Drum and shaft assembly; less coil strips	31B-631	121-395
	11	Grommet, rubber; for mtg. gang	21A-028	121-392
	12	. Shaft retaining spring	31B-030	121-387
SO-101	13	Socket, 3-prong; antenna	27B-011	121-393
	14	. Socket, tube	27A-020	121-391
	15	Tube shield	16S-006	121-390
		COIL STRIPS		
	NOTE: TH	ne coil strips are supplied complete with capacitors and cores. The	ennonitora	
	NOID. II	d cores may also be ordered separately.	capacitors	
	6.11	a cores may also be ordered separately.		
11	16	Antenna coil strip, band 7	31L-201	88-920
21.	17	. Antenna coil strip, band 1	31L-202	88-908
**********		Core	20E-035	121-406
		550 mmfd. 3%, 300 V.; silver mica	13B-088	121-407
4T	18	Antenna coil strip, band 5	31L-203	88-916
120,		Core	20E-035	121-406
		330 mmfd. 3%, 300V.; silver mica	13B-091	121-408
				121-409
QY	10	4.25 mmfd. ± .5 mmfd., NPO; ceramic disc	13D-226	
V			31L-204	88-914
		Core	20E-035	121-406
111	20	Antana acil strice band 6	13L-8S220J	121-410
8-14-1-1-c	40	. Antenna coil strip, band 6	31L-205	88-918
		Core	20E-035	121-406
141	21		13L-8L150J	121-411
ATDIALL			31L-206	88-910
		Core	20E-035	121-406
177	22	13 mmid. 5%, Nov; 2" ceramic disc.,.,	13L-BL130J	121-412
I fli			31L-207	88-912
		Core	20E-035	121-406
OF	nn.	10 mmfd. 5%, NPO; ½" ceramic disc	13L-8C100J	121~413
3L	23	Antenna coil strip, LW band	31L-208	88-922
1.7	0.4	Core	20E-042	121-414
I Lucia a a a a a a a a a a a a a a a a a a	24	RF/osc. coil strip, band 7	31L-251	88 -919
		Core	20E-035	121-406
		470 mmfd. 3%, 300V.; silver mica	13B-085	121-415
0.7		18 mmfd. 5%, N330; 4" ceramic disc	13L-8S180J	121~416
ZL	25	RF/osc. coil strip, band 1	31L-252	88-907
		Core	20K-035	121-406
		360 mmfd. 3%, 300V.; silver mica	13B-086	121-417
		560 mmfd. 3%, 300V.; silver mica	13B-087	121-418
4.5		6.8 mmfd. ± .5 mmfd., NPO; ceramic	13D-215	121-419
4L	26	RF/osc. coil strip, band 5	31L-253	88-915
		Core, 3/8" long	20E-035	121-406
		Core, 5/8" long	20E-038	121-420
		380 mmfd. 3%, 300V.; silver mica	13B-089	121-421
		340 mmfd. 3%, 300V.; silver mica	13B-090	121-422
		5 mmfd. ± .5 mmfd., NPO; ceramic	13L-8C050K	121-423

N - neg, temp, coef,

NPO - zero temp coef.



PARTS LIST for DYNAMIC TURRET TUNERS 1D1382 & 1-2175

COIL STRIPS (Cont.)

Coil Strip Marking	Ref. No. on Fig. 10	Description	Cross Reference	Hallicrafters Part Number
91	27	RF/osc. coil strip, band 4	31L-254	88-913
02		Core, 3/8" long	20E-035	121-406
		Core, 1/2" long	20E-036	121-424
		18 mmfd. 5%, N330; ¼" ceramic disc	13L-8S180J	121-416
		24 mmfd. 5%, N750; ¼" ceramic disc	13L-8U240J	121-425
117	28	RF/osc. coil strip, band 6	31L-255	88-917
		Core	20E-035	121-406
		18 mmfd. 5%, N330; $\frac{1}{4}$ " ceramic disc	13L-8S180J	121-416
		13 mmfd. 5%, N80; ¼" ceramic disc	13L-8L130J	121-412
147.	29	RF/osc. coil strip, band 2	31L-256	88-909
***********		Core	20E-035	121-406
		17 mmfd. 5%, N330; ½" ceramic disc	13L-8S170J	121-426
		12 mmfd. 5%, NPO; ½ ceramic disc	13L-8C120J	121-427
171.	30	RF/osc. coil strip, band 3	31L-257	88-911
2123		Core, 1/2" long	20E-036	121-424
		Core, 3/8" long	20E-035	121-406
		12 mmfd. 5%, NPO; ½" ceramic disc	13L-8C120J	121-427
		14 mmfd. 5%, N80; ¼" ceramic disc	13L-8L140J	121-428
3T.	91	RF/osc. coil strip, LW band	31L-258	88-921
JD	· · · · · · · · · · · · · · · · · · ·	Core, 3/8" long	20E-035	121-406
		Core, 1/2" long	20E-042	121-414
		300 mmfd. 5%, 300V.; silver mica	13B-093	121-429
		Jou minute 0.70, 000 to, Sirer interested to the control of the co	202 330	202 200

N - neg. temp. coef.

NPO - zero temp. coef.

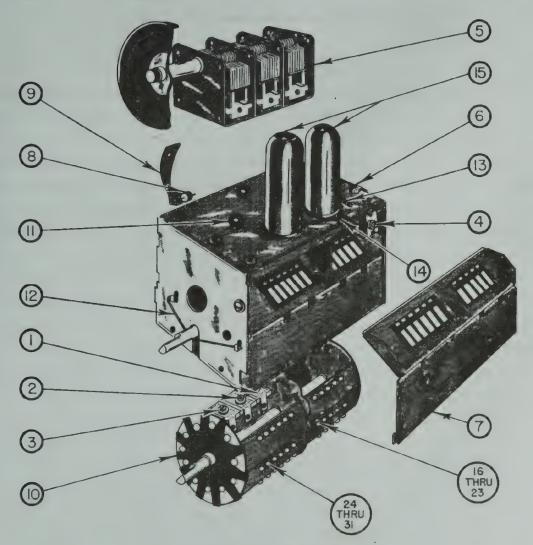


Fig. 10. Exploded View of Dynamic Turret Tuner

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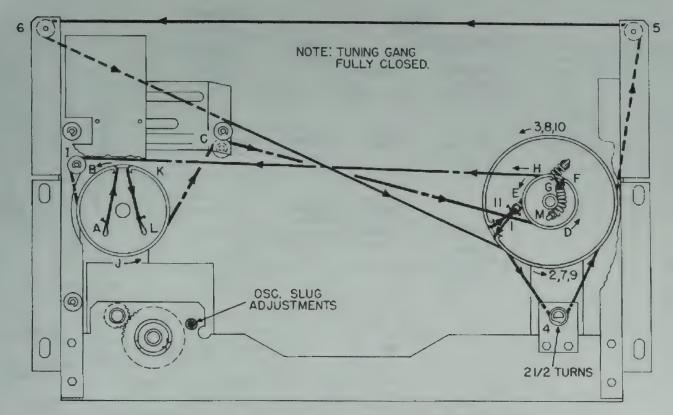
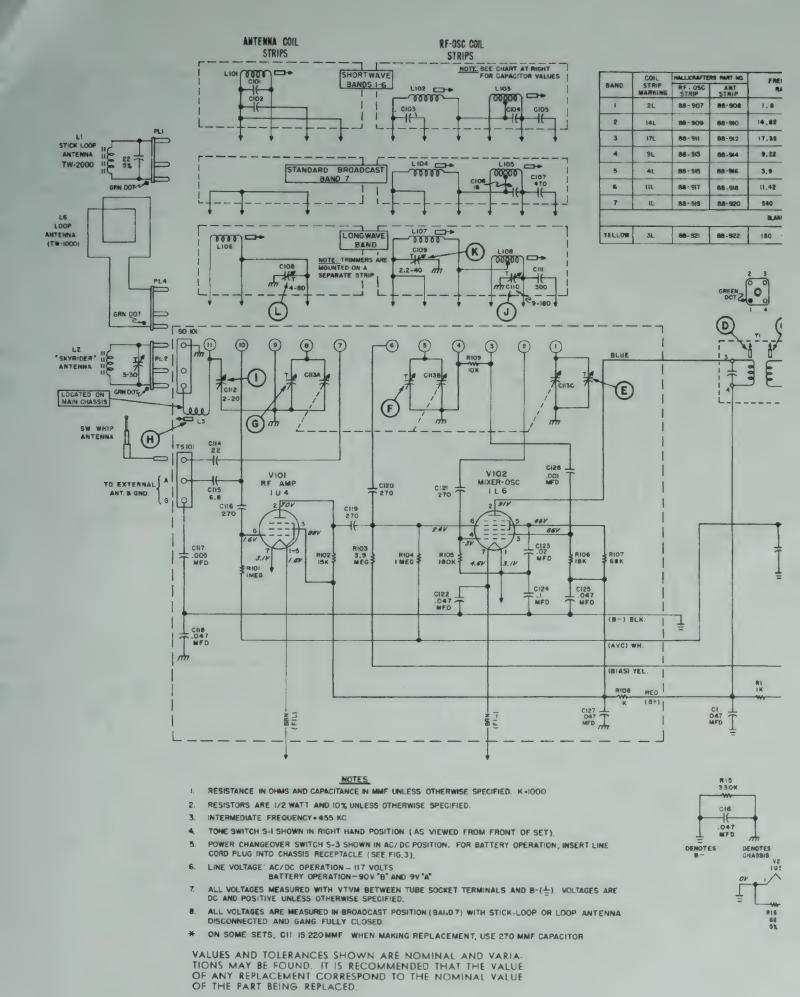


Fig. 11. Dial Pointer and Tuning Gang Stringing Diagram

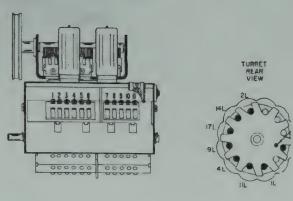
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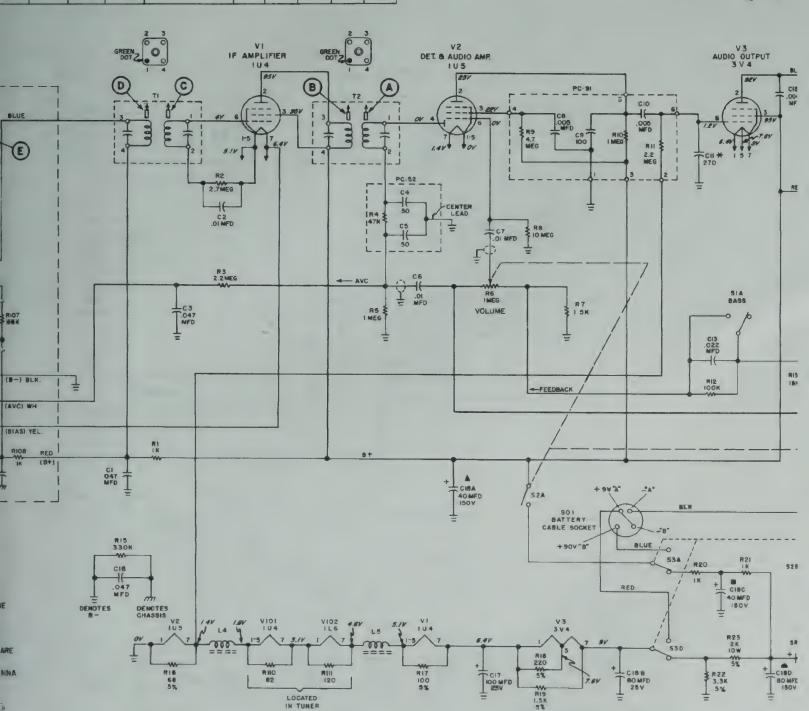




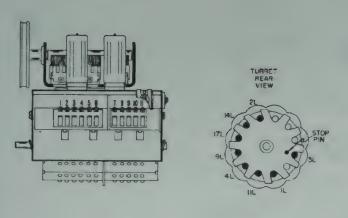


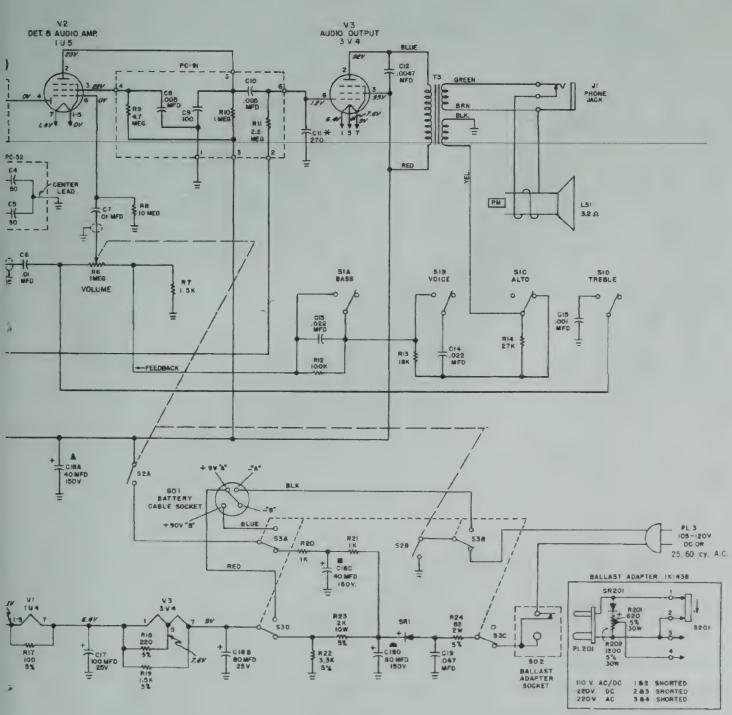
"BAND	COIL STRIP MARKING	HALLICRAFTERS PART NO.		FREQUENCY			C 101	C102	C103	C104	C 105	
		RF-OSC ANT STRIP STRIP		RANGE								
1	2L	88-907	88-908	1.8		3,9	MC	HONE	550	560	6.8	360
2	141	86-909	88-910	14.62	-	15.7	MC .	HONE	13	17	NONE	12
3	171	88-911	88-912	17.32		18,2	MC	NONE	10	14	NONE	12
4	91	88 - 9/3	88-914	9.22	_	10.3	MC,	NONE	22	24	NONE	18
5	4L	88 - 915	88-916	3.9	-	8.0	MC	4.25	330	340	5	380
6	IIL	88-917	86-918	11,42	_	12,3	MC	NONE	15	18	NONE	13
7	16.	88-919	88-920	540	_	1600	KC					
				BLA	NK F	OSITIO	104					
YELLOW	34.	86-921	88-922	180	-	400	KC					



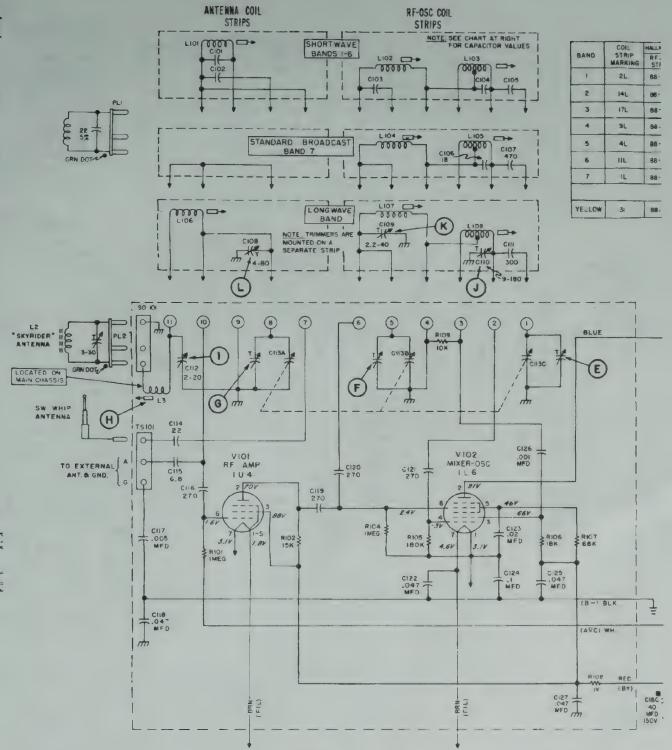










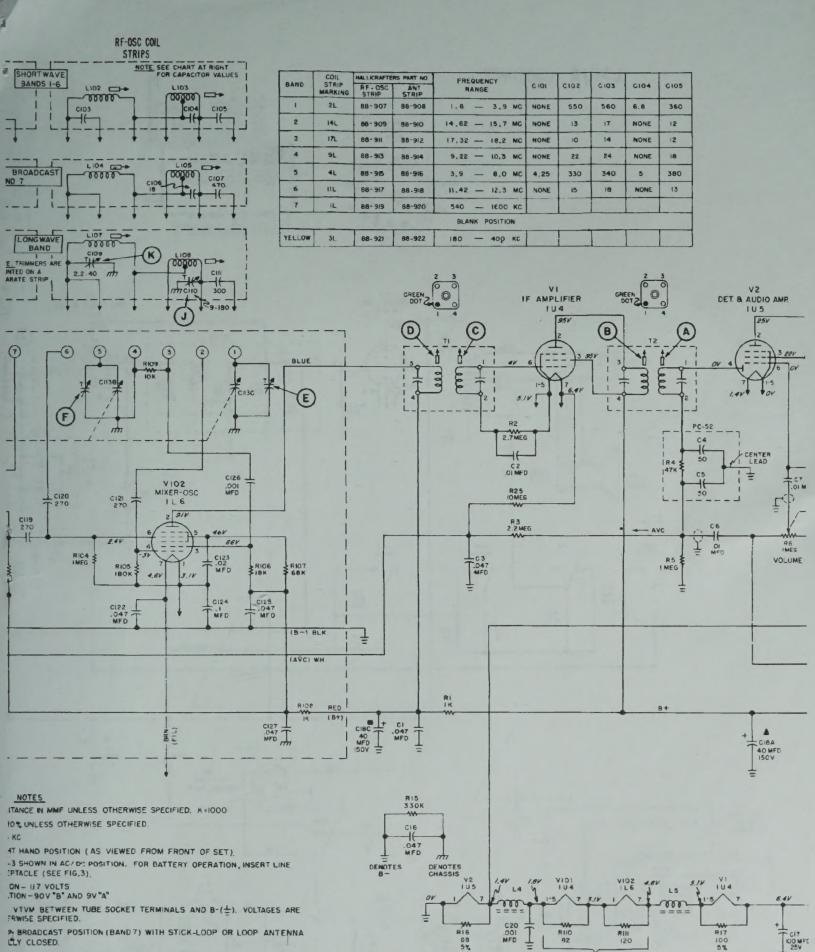


NOTES

- I. RESISTANCE IN OHMS AND CAPACITANCE IN MMF UNLESS OTHERWISE SPECIFIED. K =1000
- 2. RESISTORS ARE 1/2 WATT AND 10% UNLESS OTHERWISE SPECIFIED.
- 3. INTERMEDIATE FREQUENCY + 455 KC
- 4. TONE SWITCH S-I SHOWN IN RIGHT HAND POSITION (AS VIEWED FROM FRONT OF SET).
- 5. POWER CHANGEOVER SWITCH S-3 SHOWN IN AC/DD POSITION. FOR BATTERY OPERATION, INSERT LINE CORD PLUG INTO CHASSIS RECEPTACLE (SEE FIG.3).
- 6. LINE VOLTAGE. AC/DC OPERATION 117 VOLTS
 BATTERY OPERATION 90V "B" AND 9V "A"
- 7. ALL VOLTAGES MEASURED WITH VIVW BETWEEN TUBE SOCKET TERMINALS AND B-(+). VOLTAGES ARE DC AND POSITIVE UNLESS OTHERWISE SPECIFIED.
- 8. ALL VOLTAGES ARE MEASURED IN BROADCAST POSITION (BAND 7) WITH STICK-LOOP OR LOOP ANTENNA DISCONNECTED AND GANG FULLY CLOSED
- * ON SOME SETS, CIT IS 220 MMF. WHEN MAKING REPLACEMENT, USE 270 MMF CAPACITOR

Publi





LOCATED

WF. WHEN MAKING REPLACEMENT, USE 270 MMF CAPACITOR.



